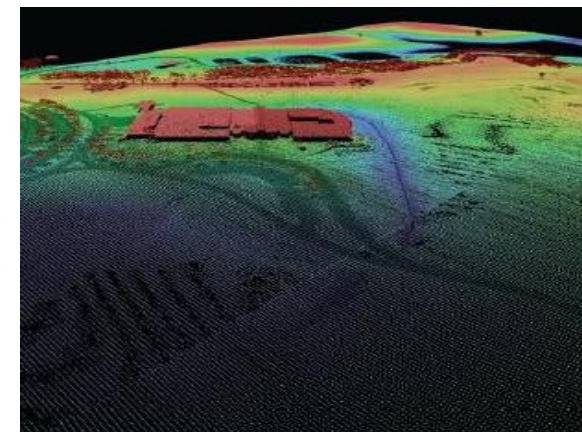
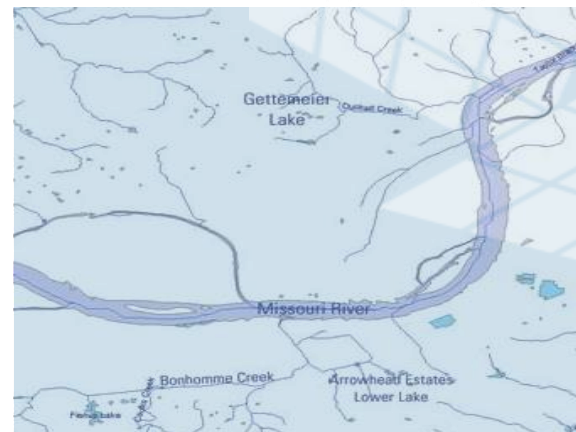
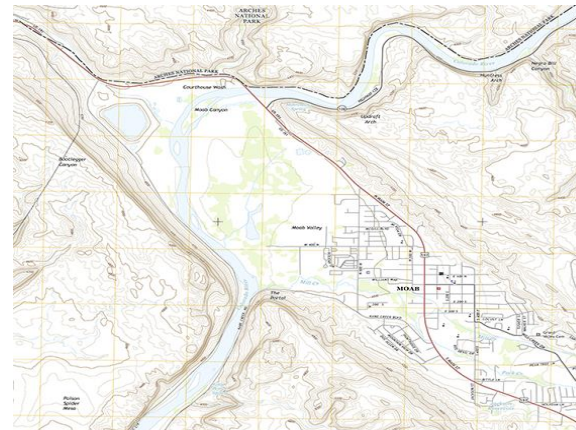




3DEP Update for NGAC





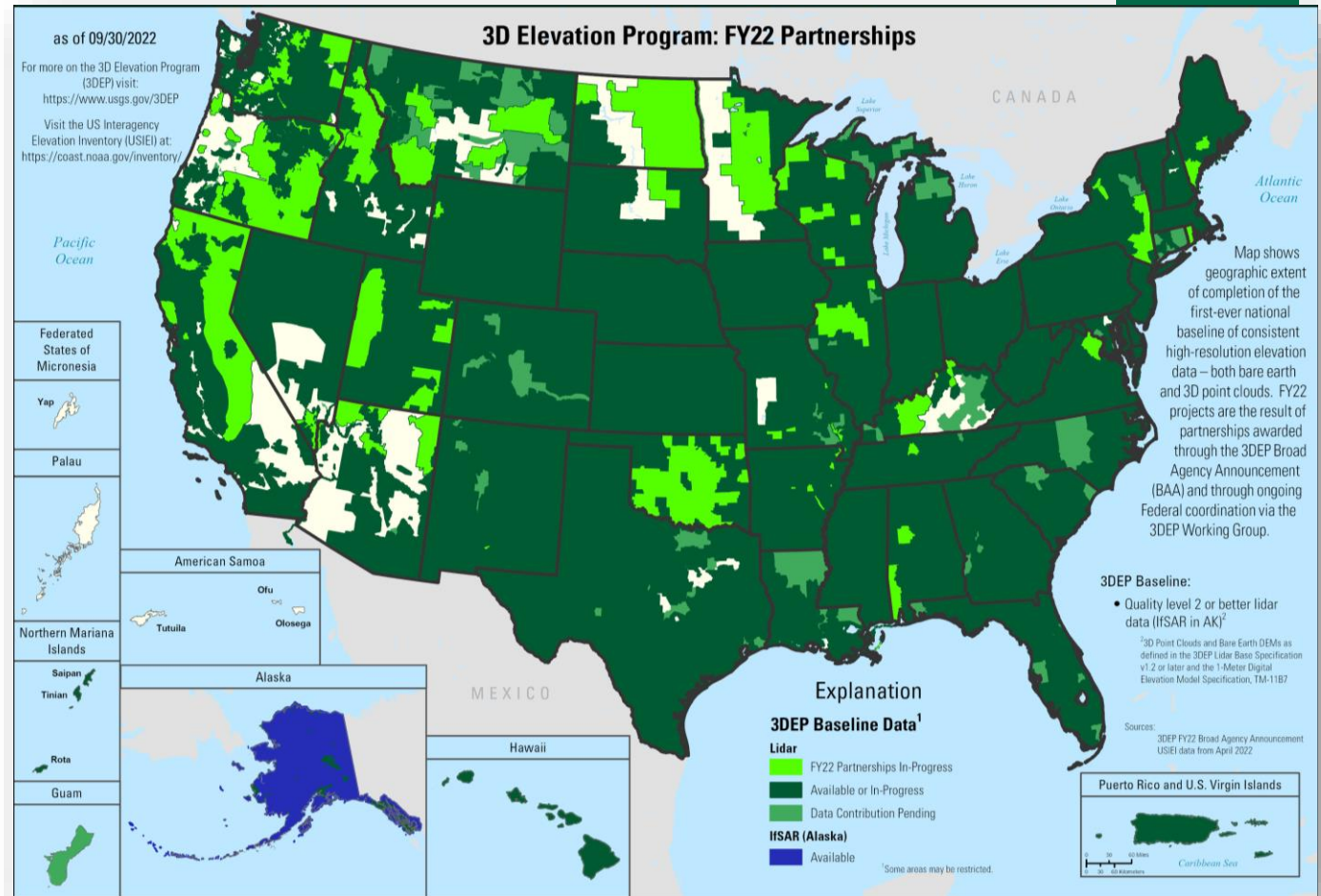
FY22 3DEP National Baseline Status

FY22 Partnerships Totals

- Broad Agency Announcement - Approved 23 proposals in 14 states for ~ 180k sq mi
- Federal partnerships - Awarded 13 projects in 13 states for ~ 163k sq mi

Highlights

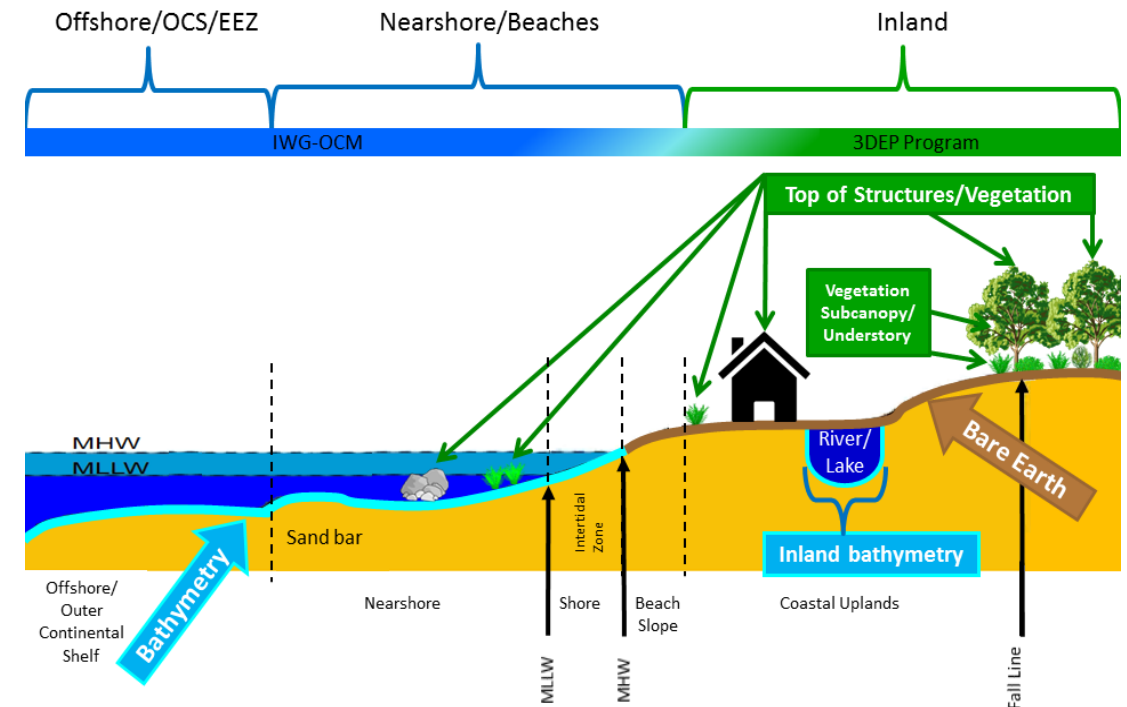
- Earth MRI contributed \$7.8M
- \$5.5M supplemental funding for lidar for Washington wildfire impact areas; leveraging with partner funding
- USGS and NRCS/FPAC-BC partnered on a project that covers a significant portion of Navajo Nation in NE AZ
- NRCS/FPAC-BC added ~ \$30M to agreement with USGS to support 3DEP data acquisition in FY23
- New agreement with BLM to support the FY23 acquisition of \$2M of 3DEP data for BLM managed lands
- At the end of FY22 **85.9%** of the Nation had 3DEP baseline data available or in progress



3D Nation Elevation Requirements and Benefits Study

COMPLETED!

- Commissioned by NOAA and USGS as Elevation Theme Leads to understand inland, nearshore, and offshore bathymetric data requirements and benefits
- Use results to guide planning for the next generation of 3DEP and Ocean and Coastal Mapping
- Study by the numbers
 - \$13.5 billion annual benefits documented
 - 1,352 mission critical requirements
 - 14,000+ pages
 - 45 Federal agencies, 56 State, 99 Local, 8 Tribal gov'ts, 34 Private companies, 24 others
 - 5 years in the making



+ What the Study asked about

3D Elevation Data Needs

- Requirements for 3D elevation data
 - **Topographic** – precise 3D measurements of the terrestrial terrain
 - **Bathymetric** – 3D measurements of underwater depths and topography
- Geographic extents of mission critical activities (MCAs)
- Characteristics of 3D elevation data needed to perform the MCA

<ul style="list-style-type: none"> ■ Quality Level/IHO Order ■ Update frequency ■ Acceptable error (Horizontal & Vertical) ■ Beach profile ■ Cross sections/ transects 	<ul style="list-style-type: none"> ■ Hydrologic processing ■ Tide correction ■ Seamlessness ■ Data products ■ Integration with other datasets
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- Currently used data & benefits
- Future benefits
 - Operational Benefits - time or cost savings, mission compliance
 - Customer Service Benefits - products or services, response or timeliness, customer experience
 - Societal Benefits (not quantified) - education or outreach, environmental, public safety, including lives and property

+ Future Annual Benefits

Total Reported Benefits - All Geographies

5

Geography Type	Future Annual Benefits
Inland topography	\$9.99B
Inland bathymetry	\$0.86B
Nearshore bathymetry	\$2.55B
Offshore bathymetry	\$0.16B
Total	\$13.56B

\$10.85B

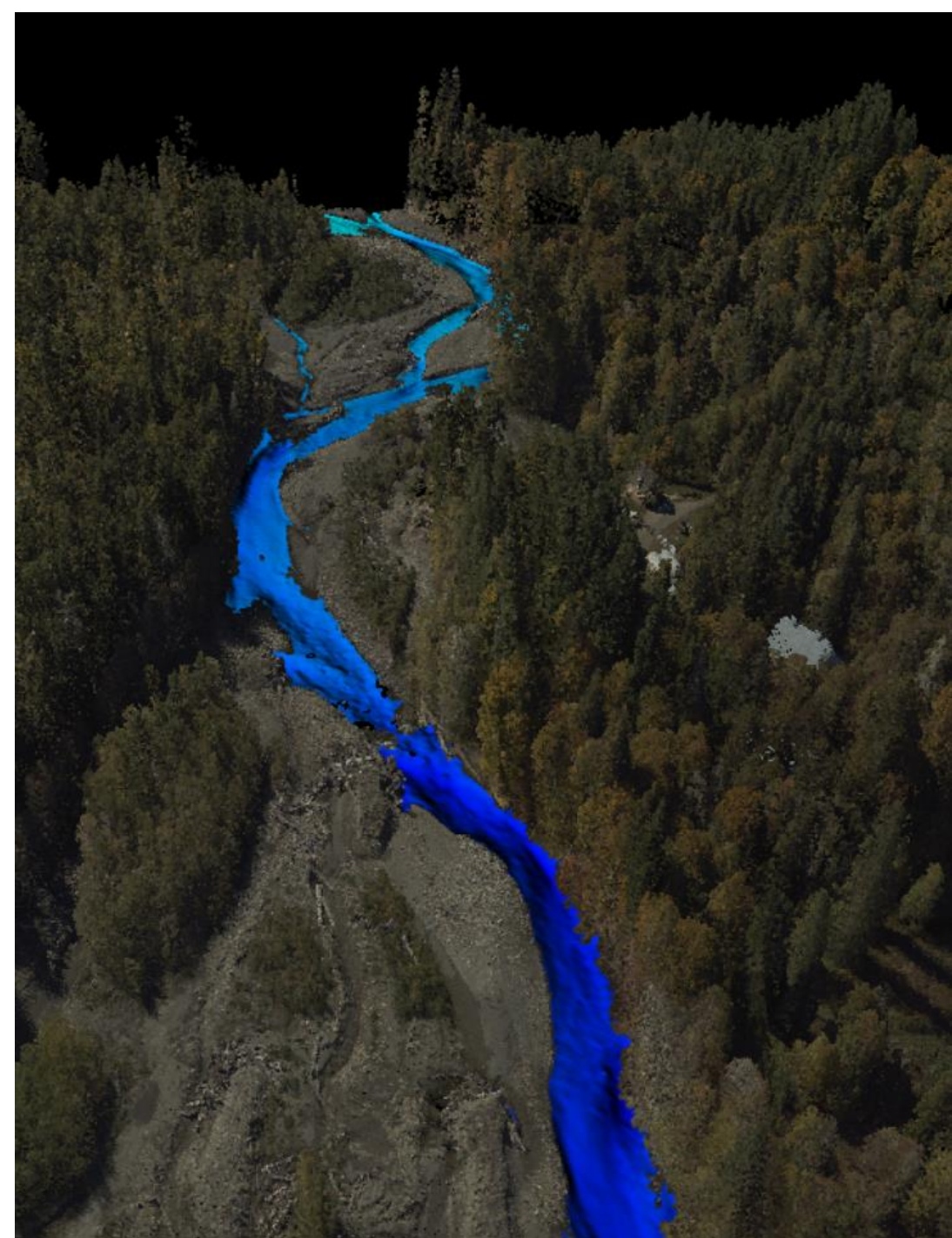
Results not Final - subject to change in final report

+

Inland Bathymetry Federal Workshop

December 6-7

- Includes representatives from NSGIC and AASG
- Share information about current and future plans for inland bathymetry activities at each agency
- Use input to help design an operational national inland bathymetry mapping component of the next generation of 3DEP in collaboration with other Federal agencies
- Draft Call for Action will be shared for review in CY23



THANK YOU!

